



ALABAMA DEPARTMENT OF TRANSPORTATION

Bureau of County Transportation

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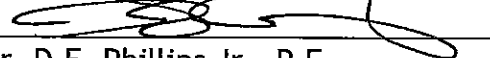
Bob Riley
Governor

Joe McInnes
Transportation Director

January 11, 2008

MEMORANDUM 2008-3

To: All County Engineers
Division County Transportation Engineers
Division Materials & Tests Engineers

From: 
Mr. D.E. Phillips Jr., P.E.
State County Transportation Engineer

Copy Mr. Don Vaughn, P.E. - Chief Engineer/Deputy Director
Mr. Don Arkle, P.E., Assistant Chief Engineer, Policy & Planning
Mr. Terry McDuffie, P.E. - Construction Engineer
Mr. Larry Lockett, P.E. - Materials & Tests Engineer
Mr. Buddy Sharpless, ACCA
File

Re: Shoulder Construction for Widening & Resurfacing Projects

Effective immediately, Memorandum 2004-30 is rescinded and the following procedures are applicable for shoulder work on all federal aid widening and/or resurfacing (RRR) county projects. **All shoulder work, exclusive of fill widening in guardrail areas, shall be included in the contract pay items for the project.** The counties will no longer have the option of doing the shoulder work with county forces. The counties will still have the option of performing the fill widening for guardrail and/or guardrail end anchors with county forces. If this fill work is being done by county forces, the following note must be added to the project note sheet as a "200 series" note:

Fills shall be widened to accommodate guardrail installation as shown on appropriate guardrail and guardrail end anchor drawings. This work will be performed by County forces at no cost to the project. This work shall include all erosion and sediment control measures in accordance with standard specifications and/or applicable special provisions and ESC Drawings.

If the fill work for guardrail installation is included as part of the project, sufficient quantities of borrow (or other approved material) should be set up as a pay item for the contractor's use.

We have also been advised by Mr. Terry McDuffie, Construction Engineer, that **borrow material should no longer be used to flush final shoulder slopes**. Specifying an A-4 material with 10% clay content is not sufficient. In accordance with this directive, and after meeting with representatives from both the Construction Bureau and the Bureau of Materials and Tests, Mr. Larry Lockett, Materials and Tests Engineer, has issued Materials and Tests Technical Advisory 1-08 (Copy attached). Based on this advisory, the flushing of the final shoulders and bringing them up to grade will require using either one of the following two materials:

1. Item 650A-000 - Topsoil

This material may be used either by itself or in conjunction with "Machine Grading Shoulders" (Section 212 of the Standard Specifications). Please note that the specifications require that the grassing operation shall follow immediately after the placing of topsoil; so all projects utilizing topsoil must have pay items set up for both "Seeding" and "Mulching".

2. Item 430B-043 Aggregate Surfacing (1" Down, Crusher Run)

This material was approved as a second option. The Standard Specifications are being revised in the 2008 edition so that the method of subgrade treatment for shoulders is specifically addressed and will no longer need to be covered by a project note. A Special Provision will be in effect until such time as the 2008 book is approved for use.

Please note that this memorandum is intended to cover only the shoulder work for RRR projects where minimal depth of material is required to bring the shoulders up to grade. Refer to the attached technical advisory for other approved shoulder treatments where needed. Also be advised that shoulder work as covered under Section 305 of the Standard Specifications will no longer be allowed for federal aid county projects.

All materials reports for county projects will continue to be approved at the division level and should specify the required shoulder material. The typical section should clearly indicate the approximate thickness of the shoulder material. You may contact this office if you have any questions concerning this memorandum.



Bob Riley
Governor

ALABAMA DEPARTMENT OF TRANSPORTATION

1409 Coliseum Boulevard, Montgomery, Alabama 36110



Joe McInnes
Transportation Director

January 10, 2008

MATERIALS AND TESTS TECHNICAL ADVISORY I-08

JAN 2008
BUREAU OF COUNTY
TRANSPORTATION
DEPT OF TRANS.

TO: Division Engineers

FROM: Larry Lockett, P. E. *Larry Lockett*
Materials and Tests Engineer

RE: Material for Flushing of Shoulders

Guidelines For Operation (GFO) 6-11, PAVEMENT TREATMENT AND DESIGN IN RESURFACING-REHABILITATION OF ASPHALT PAVEMENTS, was recently revised to include guidance on bringing any unpaved shoulder areas up to the grade of the newly placed overlay by flushing the shoulders with a suitable borrow material, or other suitable material, as soon as practical after resurfacing.

It was stated in GFO 6-11, that the material utilized for the purpose of flushing the shoulders should have suitable binder or cohesive properties to keep the material in place and to help prevent it from being washed away during rainfall events. To clarify this statement, effective immediately, borrow material that is shown as being required to flush the shoulders will also be required to have a minimum clay content of 10%. In addition, to help facilitate grass growth, a layer of topsoil will also be required to be placed on top of the borrow material that is used to flush the shoulders.

GFO 6-11 further stated that preferably, some type of soil aggregate base course material, crushed aggregate base course material, crusher run material, or other materials with similar binder or cohesive properties should be used to flush the

shoulders adjacent to an overlay, when required. In consideration of cost and specification requirements, a crusher run material is preferred over a crushed aggregate base course material, and when utilized, the crusher run material will be required to be 1" down in size.

If a soil aggregate base course material is used to flush the shoulders, it will be required to have a minimum clay content of 8%. The placement of a layer of topsoil on top of the soil aggregate base course material will also be required to facilitate the growth of grass.

If a section roadway is let to contract for resurfacing through the state bid process, any and all shoulder work required in conjunction with the resurfacing will be contract work items to be done under the same contract as the resurfacing. Due to possible delays in flushing the shoulders and potential liability issues, it will not be acceptable for non-contract work forces to come back at a later date and flush the shoulders after the contractor has completed his resurfacing work.

Cc: Mr. G. M. Harper, P. E.
Mr. Terry L. McDuffie, P. E.
Mr. Ed Phillips, P. E. ✓
Mr. John Lorentson, P. E.
Division Construction Engineers
Division Materials Engineers
FHWA (Mr. Steve Mills, P. E.)
File